

10/531,587

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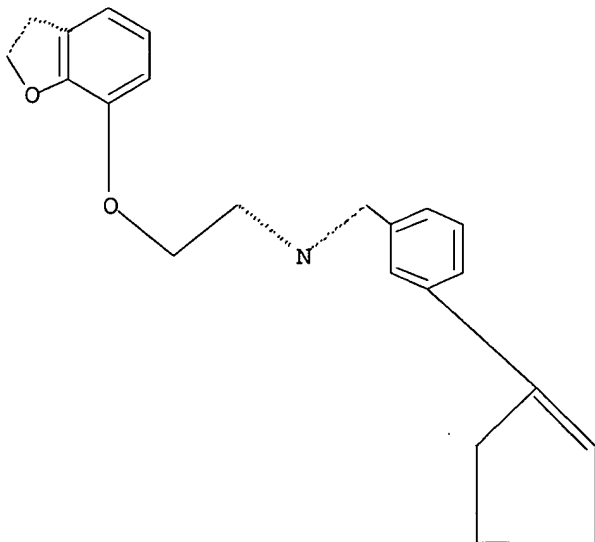
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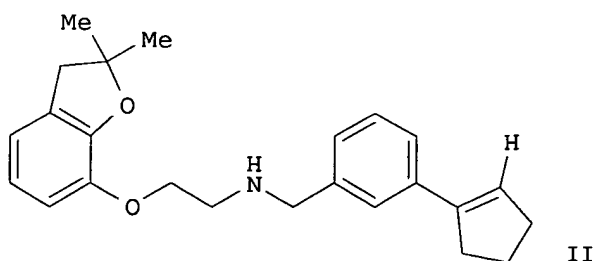
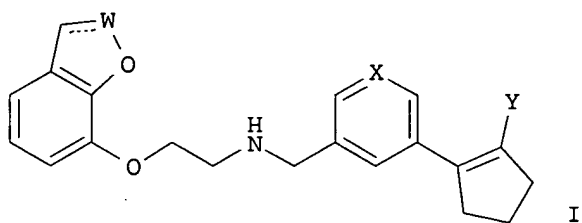
L1 STR



10/531,587

INVENTOR(S): schizophrenia  
Vacher, Bernard; Cuisiat, Stephane; Koek, Wouter;  
Colpaert, Francis  
PATENT ASSIGNEE(S): Pierre Fabre Medicament, Fr.  
SOURCE: Fr. Demande, 36 pp.  
CODEN: FRXXBL  
DOCUMENT TYPE: Patent  
LANGUAGE: French  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2845992	A1	20040423	FR 2002-12854	20021016
FR 2845992	B1	20050204		
CA 2502528	AA	20040429	CA 2003-2502528	20031016
WO 2004035561	A1	20040429	WO 2003-FR3053	20031016
W: AU, BR, CA, CN, JP, MX, US, ZA				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
AU 2003301277	A1	20040504	AU 2003-301277	20031016
EP 1551821	A1	20050713	EP 2003-808761	20031016
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK				
BR 2003015365	A	20050823	BR 2003-15365	20031016
JP 2006508080	T2	20060309	JP 2004-544396	20031016
US 2006014827	A1	20060119	US 2005-531587	20050418
PRIORITY APPLN. INFO.:			FR 2002-12854	A 20021016
			WO 2003-FR3053	W 20031016
OTHER SOURCE(S):		MARPAT 140:339186		
GI				



AB Title compds. I [W = CH, CH<sub>2</sub>, CHCH<sub>3</sub>, CCH<sub>3</sub>, C(CH<sub>3</sub>)<sub>2</sub>, a group C(CH<sub>2</sub>)<sub>2</sub> (i.e., a carbon atom carrying two methylene groups so as to form a spirocyclopropane ring) or C(CH<sub>2</sub>)<sub>3</sub> (i.e., a carbon atom carrying two methylene groups so as to form a spirocyclobutane ring) with provisos; X =

CH, N; Y = H, F; their salts and hydrates of the salts of addition with mineral acids or the pharmaceutically acceptable organic acids, their tautomers, pure enantiomers and the racemic mixts. of enantiomers] were prepared as dopaminergic D2 antagonists drugs for treating of schizophrenia. For example, II was prepared by reductive alkylation of 3-(Cyclopenten-1-yl)benzaldehyde (preparation given) with 2-(2,2-Dimethyl-2,3-dihydrobenzofuran-7-yloxy)ethylamine (preparation given) in CH<sub>2</sub>Cl<sub>2</sub> in the presence of MgSO<sub>4</sub> at 60°. Selected I displayed affinity for D2 and 5HT<sub>1A</sub> receptors, with pK<sub>i</sub> ratios comparable to Nemonapride [pK<sub>i</sub>(D2)/pK<sub>i</sub>(5HT<sub>1A</sub>) = 1.3]. I are potent and efficient dopaminergic antagonists without secondary effects such as catalepsy in animals. I are useful for treating schizophrenic psychoses.

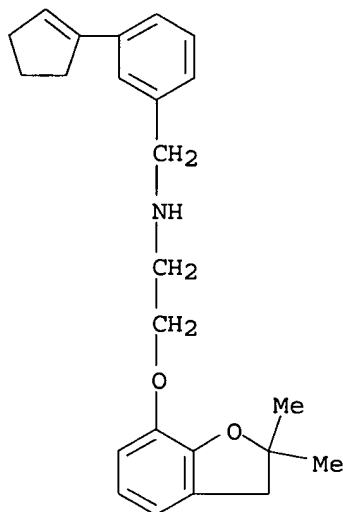
IT 680203-70-7P, [2-(2,2-Dimethyl-2,3-dihydrobenzofuran-7-yloxy)ethyl] [3-(cyclopenten-1-yl)benzyl]amine 680203-72-9P 680203-73-0P, [2-(Benzofuran-7-yloxy)ethyl] [3-(cyclopenten-1-yl)benzyl]amine 680203-75-2P 680203-77-4P, [2-(2-Methylbenzofuran-7-yloxy)ethyl] [3-(cyclopenten-1-yl)benzyl]amine 680203-81-0P 680203-84-3P, [2-(2,3-Dihydrobenzofuran-7-yloxy)ethyl] [3-(cyclopenten-1-yl)benzyl]amine 680203-89-8P 680203-90-1P 680203-92-3P 680203-93-4P 680203-94-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(dopamine D2 antagonist; preparation of 3-(cyclopenten-1-yl)benzyl- or 3-(cyclopenten-1-yl)heteroarylmethylamines as dopaminergic D2 antagonists for treating schizophrenia)

RN 680203-70-7 CAPLUS

CN Benzenemethanamine, 3-(1-cyclopenten-1-yl)-N-[2-[(2,3-dihydro-2,2-dimethyl-7-benzofuranyl)oxy]ethyl]- (9CI) (CA INDEX NAME)



RN 680203-72-9 CAPLUS

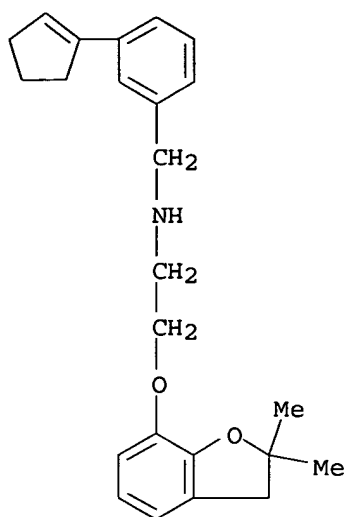
CN Benzenemethanamine, 3-(1-cyclopenten-1-yl)-N-[2-[(2,3-dihydro-2,2-dimethyl-7-benzofuranyl)oxy]ethyl]-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 680203-70-7

CMF C24 H29 N O2

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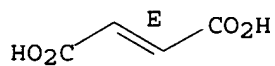


CM 2

CRN 110-17-8

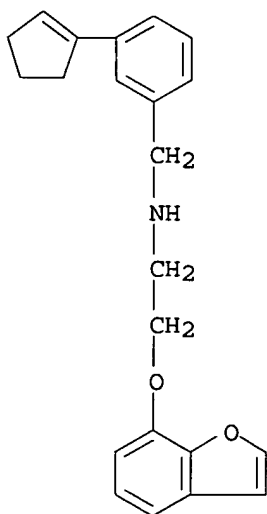
CMF C4 H4 O4

Double bond geometry as shown.



RN 680203-73-0 CAPLUS

CN Benzenemethanamine, N-[2-(7-benzofuranyloxy)ethyl]-3-(1-cyclopenten-1-yl)-  
(9CI) (CA INDEX NAME)



RN 680203-75-2 CAPLUS

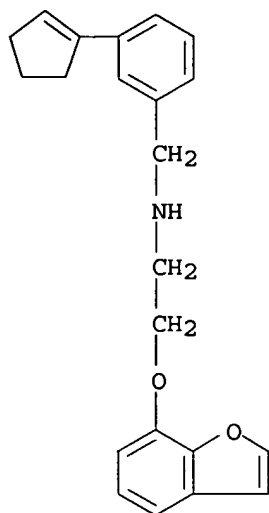
CN Benzenemethanamine, N-[2-(7-benzofuranyloxy)ethyl]-3-(1-cyclopenten-1-yl)-  
, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

10/531,587

CM 1

CRN 680203-73-0

CMF C22 H23 N O2

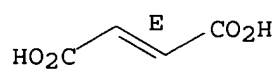


CM 2

CRN 110-17-8

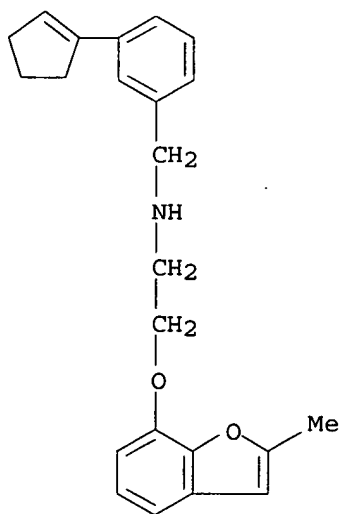
CMF C4 H4 O4

Double bond geometry as shown.



RN 680203-77-4 CAPLUS

CN Benzenemethanamine, 3-(1-cyclopenten-1-yl)-N-[2-[(2-methyl-7-benzofuranyl)oxy]ethyl]- (9CI) (CA INDEX NAME)



10/531,587

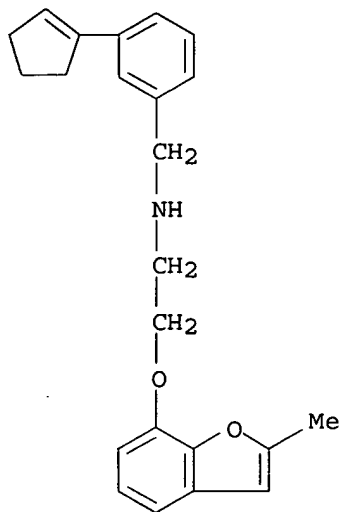
RN 680203-81-0 CAPLUS

CN Benzenemethanamine, 3-(1-cyclopenten-1-yl)-N-[2-[(2-methyl-7-benzofuranyl)oxy]ethyl]-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 680203-77-4

CMF C23 H25 N O2

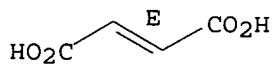


CM 2

CRN 110-17-8

CMF C4 H4 O4

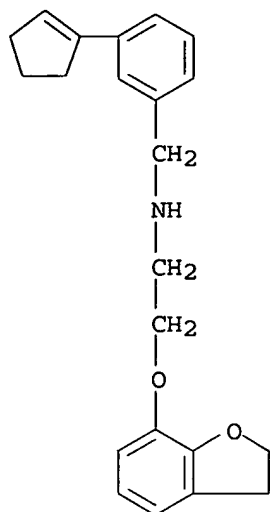
Double bond geometry as shown.



RN 680203-84-3 CAPLUS

CN Benzenemethanamine, 3-(1-cyclopenten-1-yl)-N-[2-[(2,3-dihydro-7-benzofuranyl)oxy]ethyl]- (9CI) (CA INDEX NAME)

10/531,587



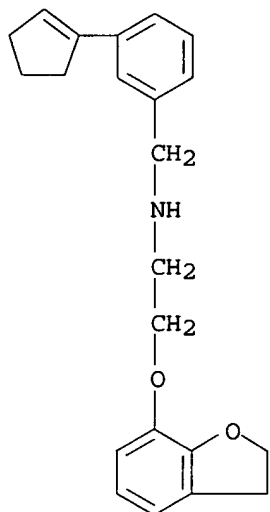
RN 680203-89-8 CAPLUS

CN Benzenemethanamine, 3-(1-cyclopenten-1-yl)-N-[2-[(2,3-dihydro-7-benzofuranyl)oxy]ethyl]-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 680203-84-3

CMF C22 H25 N O2

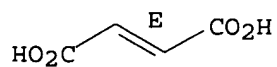


CM 2

CRN 110-17-8

CMF C4 H4 O4

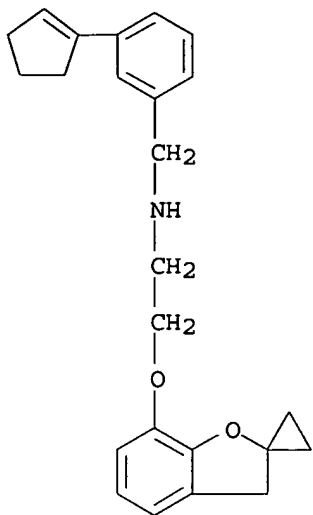
Double bond geometry as shown.



10/531,587

RN 680203-90-1 CAPLUS

CN Benzenemethanamine, 3-(1-cyclopenten-1-yl)-N-[2-(spiro[benzofuran-2(3H),1'-cyclopropan]-7-yloxy)ethyl]- (9CI) (CA INDEX NAME)



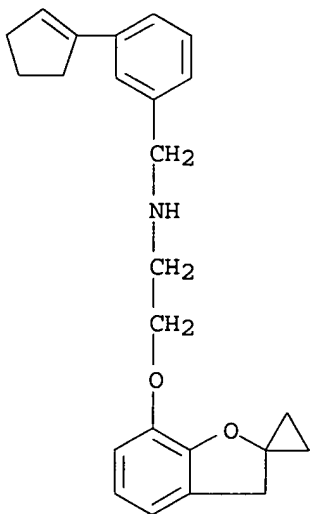
RN 680203-92-3 CAPLUS

CN Benzenemethanamine, 3-(1-cyclopenten-1-yl)-N-[2-(spiro[benzofuran-2(3H),1'-cyclopropan]-7-yloxy)ethyl]-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 680203-90-1

CMF C24 H27 N O2



CM 2

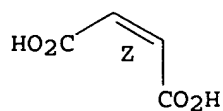
CRN 110-16-7

CMF C4 H4 O4



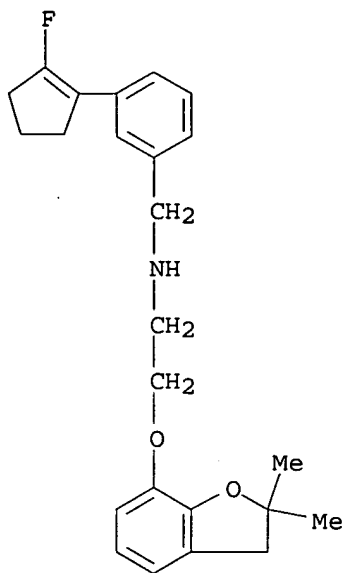
10/531,587

Double bond geometry as shown.



RN 680203-93-4 CAPLUS

CN Benzenemethanamine, N-[2-[(2,3-dihydro-2,2-dimethyl-7-benzofuranyl)oxy]ethyl]-3-(2-fluoro-1-cyclopenten-1-yl)- (9CI) (CA INDEX NAME)



RN 680203-94-5 CAPLUS

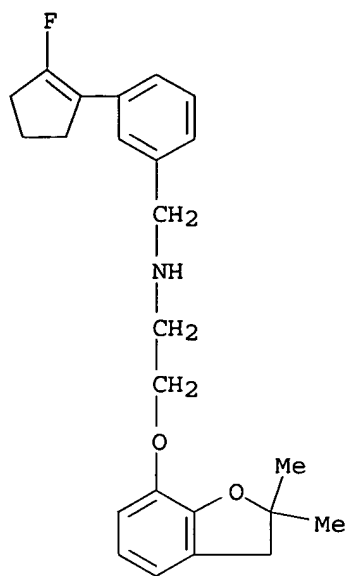
CN Benzenemethanamine, N-[2-[(2,3-dihydro-2,2-dimethyl-7-benzofuranyl)oxy]ethyl]-3-(2-fluoro-1-cyclopenten-1-yl)-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 680203-93-4

CMF C24 H28 F N O2

10/531,587

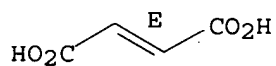


CM 2

CRN 110-17-8

CMF C4 H4 O4

Double bond geometry as shown.



REFERENCE COUNT:

4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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